

<!--StartFragment-->RESULT 2

AAD56890

ID AAD56890 standard; cDNA; 1279 BP.

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AC AAD56890;

XX

DT 06-NOV-2003 (first entry)

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DE Human diacylglycerol acyltransferase 2 (DGAT2) cDNA, 112023.

XX

KW Human; diacylglycerol acyltransferase 2; DGAT2; obesity; arrhythmia;  
 KW coronary artery disease; hypertension; heart failure; tissue typing;  
 KW aberrant lipogenesis; cardiovascular disorder; atherosclerosis; angina;  
 KW atrial fibrillation; dilated cardiomyopathy; idiopathic cardiomyopathy;  
 KW diabetes; chromosome mapping; forensic biology; enzyme; gene; ss.

XX

OS Homo sapiens.

XX

FH Key Location/Qualifiers

FT CDS 42..1028

FT /\*tag= a

FT /product= "Human diacylglycerol acyltransferase 2"

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PN WO2003053363-A2.

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PD 03-JUL-2003.

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PF 19-DEC-2002; 2002WO-US040974.

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PR 19-DEC-2001; 2001US-0341947P.

PR 19-SEP-2002; 2002US-0411859P.

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PA (MILL-) MILLENNIUM PHARM INC.

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PI Gimeno RE, Wu Z, Kapeller-Libermann R, Hubbard BK;

XX

DR WPI; 2003-559092/52.

DR P-PSDB; AAE37790.

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PT New human diacylglycerol acyltransferase 2 (DGAT2) family member  
 PT polypeptide and nucleic acid molecules, useful for diagnosing and  
 PT treating obesity, diabetes, atherosclerosis, aberrant lipogenesis or  
 PT triglyceride synthesis.

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PS Claim 1; Page 133-134; 154pp; English.

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CC The invention relates to human diacylglycerol acyltransferase 2 (DGAT2)  
 CC family members and their uses. DGAT2 family member sequences or their  
 CC modulators are useful for diagnosing and treating a subject with a  
 CC disorder associated with the aberrant DGAT family member polypeptide  
 CC activity or nucleic acid expression, such as a disorder associated with  
 CC obesity, diabetes, aberrant lipogenesis or triglyceride synthesis, or  
 CC cardiovascular disorder (e.g. atherosclerosis, coronary artery disease,  
 CC hypertension, heart failure, atrial fibrillation, arrhythmias, dilated  
 CC cardiomyopathy, idiopathic cardiomyopathy or angina). The invention is  
 CC also useful in screening assays (e.g. tissue typing, chromosome mapping,  
 CC or in forensic biology), in predictive medicine (e.g. diagnostic assays,  
 CC prognostic assays, monitoring clinical trials or pharmacogenetics), or as  
 CC surrogate markers (e.g. markers of disease states or markers of drug  
 CC activity). The present sequence is human DGAT2 cDNA

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SQ Sequence 1279 BP; 273 A; 352 C; 328 G; 326 T; 0 U; 0 Other;

Query Match 95.9%; Score 1084.8; DB 2; Length 1279;  
 Best Local Similarity 98.0%;  
 Matches 1109; Conservative 0; Mismatches 22; Indels 1; Gaps 1;

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Qy	121	GGATCTTGCAGCCATTGTTTCGTCTACCTGCTGTTTACATCCTTGTGGCCGCTACCAGTGC	180
Db	121	GGATCTTGCAGCCATTGTTTCGTCTACCTGCTGTTTACATCCTTGTGGCCGCTACCAGTGC	180
Qy	181	TTTACTTTGCCTGGTTGTTTCCTGGACTGGAAGACCCAGAGCGAGGTGGCAGGCGTTCGG	240
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Qy	421	TCCCAGGCATCACTCCTCACTTGGCCACGCTGTCCTGGTTCTTCAAGATCCCCTTTGTTA	480
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Qy	601	AAAGTGTGCCCAACACCACCACCTCATCTCCAGAAGCGCAAGGGGTTTCGTGCGCACAG	660
Db	601	AAAGTGTGCCCAAGACCACCACCTCATCTCCAGAAGCGCAAGGGGTTTCGTGCGCACAG	660
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Db	661	CCCTCCAGCATGGGGCTCATCTGGTCCCCACCTTCACTTTTGGGGAAACTGAGGTGTATG	720
Qy	721	ATCAGGTGCTGTTCCATAAGGATAGCAGGATGTACAAGTTCCAGAGCTGCTTCCGCCGTA	780
Db	721	ATCAGGTGCTGTTCCATAAGGATAGCAGGATGTACAAGTTCCAGAGCTGCTTCCGCCGTA	780
Qy	781	TCTTTGGTTTCTACTGTTGTGTCTTCTATGGACAAAGCTTCTGTCAAGGCTCCACTGGGC	840
Db	781	TCTTTGGTTTCTACTGTTGTGTCTTCTATGGACAAAGCTTCTGTCAAGGCTCCACTGGGC	840

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Qy      901 TTGAAAAGCCAAGCCAGGAGATGGTGGACAAATACCATGCACTTTATATGGATGCTCTGC 960
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Db      901 TTGAAAAGCCAAGCCAGGAGATGGTGGACAAATACCATGCACTTTATATGGATGCTCTGG 960

Qy      961 ACAAACTGTTTCGACCAGCATAAGACCCACTATGGCTGCTCAGAGACCCAAAAGCTGTTTT 1020
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Db      1021 TCCTGTGAATGAAGGTACTGTCATGCCCAGGAGCACAGGAGTGCCTGCCTTTGAAGAAGAA 1080

Qy      1080 ACTCATCTGCCACTAACCAAAGACAGGCAGGAGATGAGGGAGGTTATATGTG 1131
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Db      1081 GAATCATCTGGCATAACCAAAGACAGGCAGGAGATGAGGGAGGTTATATGTG 1132
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